

Lightweight, Highly Flexible Ceramic Copolymer Composite Liners for Providing Multi-Threat Laceration, Abrasion and Puncture Protection to Special Operations Personnel

Award Information

Agency:

Department of Defense

Branch

Special Operations Command

Amount:

\$100,000.00

Award Year:

2010

Program:

SBIR

Phase:

Phase I

Contract:

H92222-10-P-0067

Agency Tracking Number:

S101-001-0097

Solicitation Year:

2010

Solicitation Topic Code:

SOCOM10-001

Solicitation Number:

2010.1

Small Business Information

NanoSonic, Inc.

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Hubzone Owned:

N

Socially and Economically Disadvantaged:

N

Woman Owned:

N

Duns:

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n/a

Abstract

The objective of this Phase I SBIR program is to design, construct and qualify next generation ceramic copolymer drysuit liners for providing multi-threat protection to special operations forces (SOF) divers from laceration, abrasion and puncture threats. The proposed lightweight, highly flexible liner technology will be designed for integration within currently employed drysuit ensembles and thus have immediate utility for imparting diver protection from an array of threat scenarios without compromising free-swimming maneuverability or continuous water to land operations. In addition, the proposed diver protection system will provide ballistic protection through its multiple threat defeating mechanisms. NanoSonic's drysuit liners will integrate innovative ceramic polymer armor materials within shear thickening Kevlar® and Dyneema® fibers to provide lightweight (

* information listed above is at the time of submission.